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March 26, 2014

H. Raymond Terpstra
Terpstra & Epping
3600 First Ave. NE, Suite 101
Cedar Rapids, IA 52402
Ph: 319-364-2467

Our File Number: 20140017
Re: Lela M. Kratz, et al. v. Sherri Meeks

Dear Mr. Terpstra,

The original document was mailed to my Ft. Lauderdale, FL office where I proceeded to examine it. The examination task was to determine if the entries were written on their date purported.

Questioned Document:

Q1. Original Check Transaction Register, 5.75 x 3 inches bifold booklet

Procedure:

Gas Chromatography-Mass Spectrometry Ink Dating

The document with original ink was analyzed by gas chromatography-mass spectrometry (GC-MS). To sample the ink, a Harris Uni-Core (0.5 mm) sampling tool was used to remove a small portion of the ink line (a punch of ink) from both two entries in the transaction register dated

January 19, March 13, and April 6. The instrument analyzes and quantifies the amount of 2-phenoxyethanol in ink samples. For this analysis, six (6) punches of ink were placed in a vial and 3 μ L of chloroform was added. After a 10 minute extraction, 1 μ L of extract was injected on to the instrument.

Results:

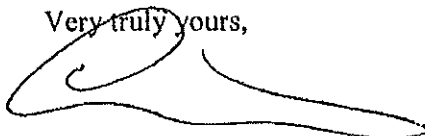
Gas Chromatography-Mass Spectrometry Ink Dating

The GC-MS ink dating showed an elevated phenoxyethanol value for the ink samples taken. This elevated level of phenoxyethanol indicates that the tested inks were written more recently than their recorded dates and therefore not written on the date purported.

Conclusion:

My opinion is based on the observations I made during my examinations and my ability to evaluate these observations, based on the training and experience I have in the area of document examination. Based on the results of the GC-MS Ink Dating, the entries made in the transaction register were not written on the dates purported. This is evident by the elevated phenoxyethanol levels detected during the GC-MS ink dating test. This opinion is drawn to a reasonable degree of scientific certainty and based on recognized scientific principles.

Very truly yours,

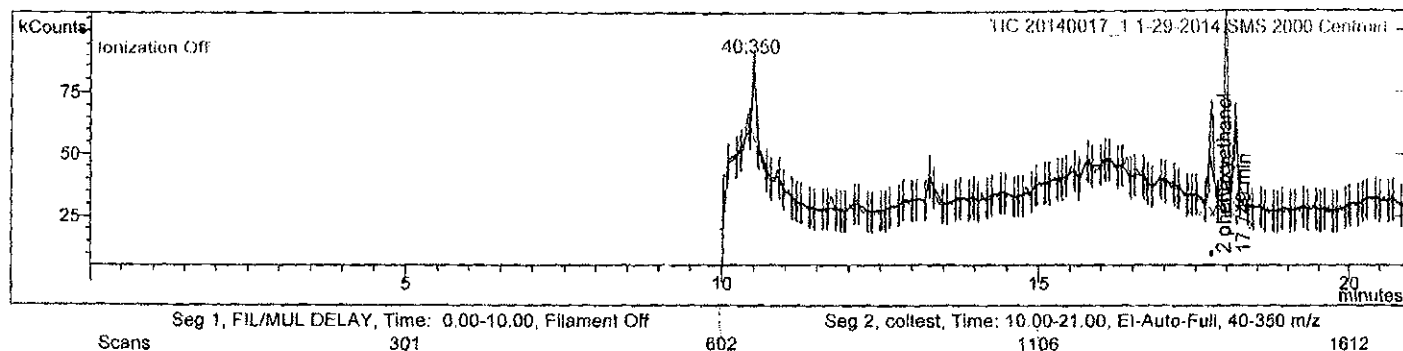
A handwritten signature in black ink, appearing to read 'Erich J. Speckin', with a large, sweeping flourish extending to the right.

Erich J. Speckin
Forensic Ink Dating Expert

EJS/ahh

Sample ID: 20140017_1
 Instrument ID: Varian GC/MS #1
 Acquisition Date: 1/29/2014 1:52 PM
 Calculation Date: 1/29/2014 2:13 PM
 Inj. Sample Notes: None
 Vial: N/A

Operator: Amy Housman
 Last Calibration: None
 Data File: ...0017_1 1-29-2014.sms
 Method: ...rm_split 20 to 1.mth



Target Compounds

#	RT	Peak Name	Res Type	Quan Ions	Area	Amount/RF
1	18.010	deuterated P.E.	Miss.	140.0	0	0.000 ppm
2	17.749	2 phenoxyethanol	Id.	138.0	23058	23058 Counts

000134

Sample ID: 20140017_1
Instrument ID: Varian GC/MS #1
Measurement Type: Area
Acquisition Date: 1/29/2014 1:52 PM
Calculation Date: 1/29/2014 2:13 PM
Sample Type: Analysis
Inj. Sample Notes: None

Operator: Amy Housman
Last Calibration: None
Calibration Type: Internal Standard
Data File: ...0017_1 1-29-2014.sms
Method: ...rm_split 20 to 1.mth

Compound Information

Peak Name:	deuterated P.E.	CAS Number:	None	Missing
Result Index:	1	Compound Number:	2	

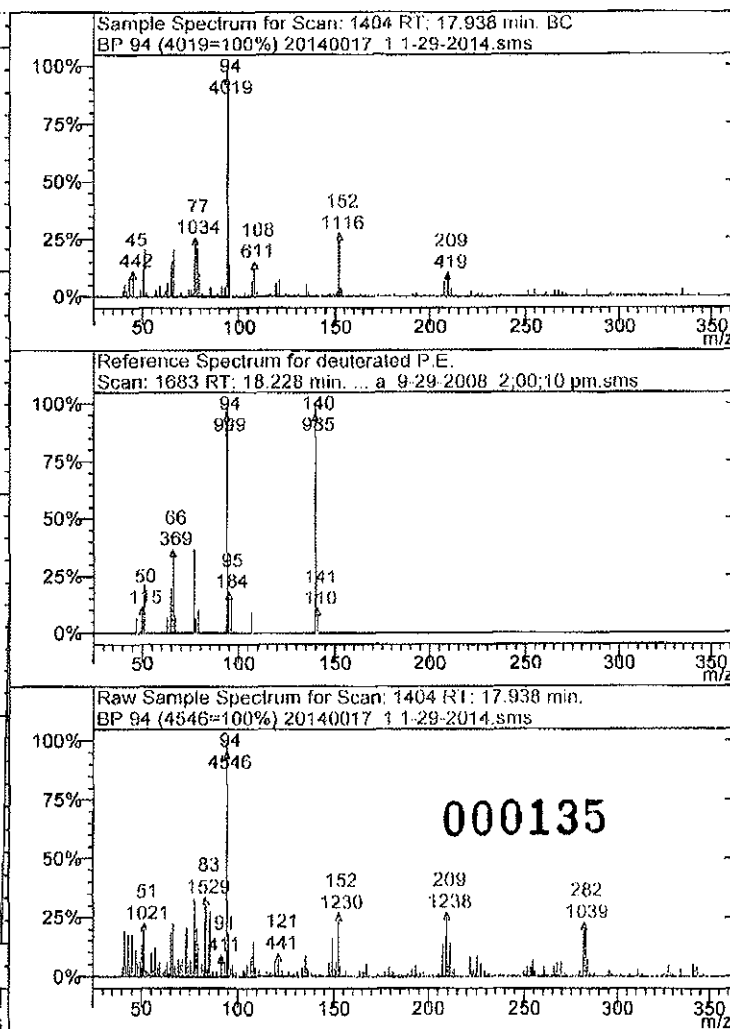
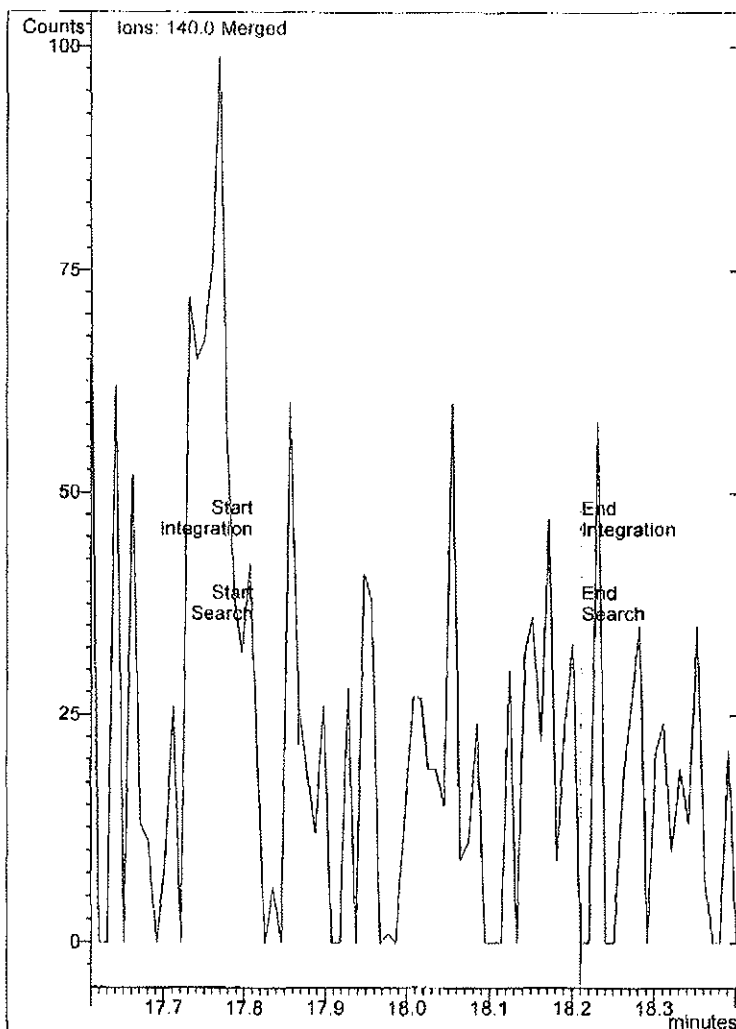
Identification

Parameter	Specification	Actual	Status
Search Type	Spectrum		
Retention Time	18.010 +/- 0.200	18.010 min.	Fail
Match Result	N-R >= 700	641	Fail

Integration and Quantitation

Parameter	Specification	Actual	Status
Quan Ions	140.0		
Calibration Equation	Linear, Force, 1/nX2		
Area	>=100	0	Fail
Height		0	
Amount	>= 0.000 ppm	0.000 ppm	

Match Types: N-R : Normal-Reverse



Sample ID: 20140017_1
Instrument ID: Varian GC/MS #1
Measurement Type: Area
Acquisition Date: 1/29/2014 1:52 PM
Calculation Date: 1/29/2014 2:13 PM
Sample Type: Analysis
Inj. Sample Notes: None

Operator: Amy Housman
Last Calibration: None
Calibration Type: Internal Standard
Data File: ...0017_1 1-29-2014.sms
Method: ...rm_split 20 to 1.mth

Compound Information

Peak Name: 2 phenoxyethanol
Result Index: 2
Compound Number: 1
CAS Number: 122-99-6
Identified

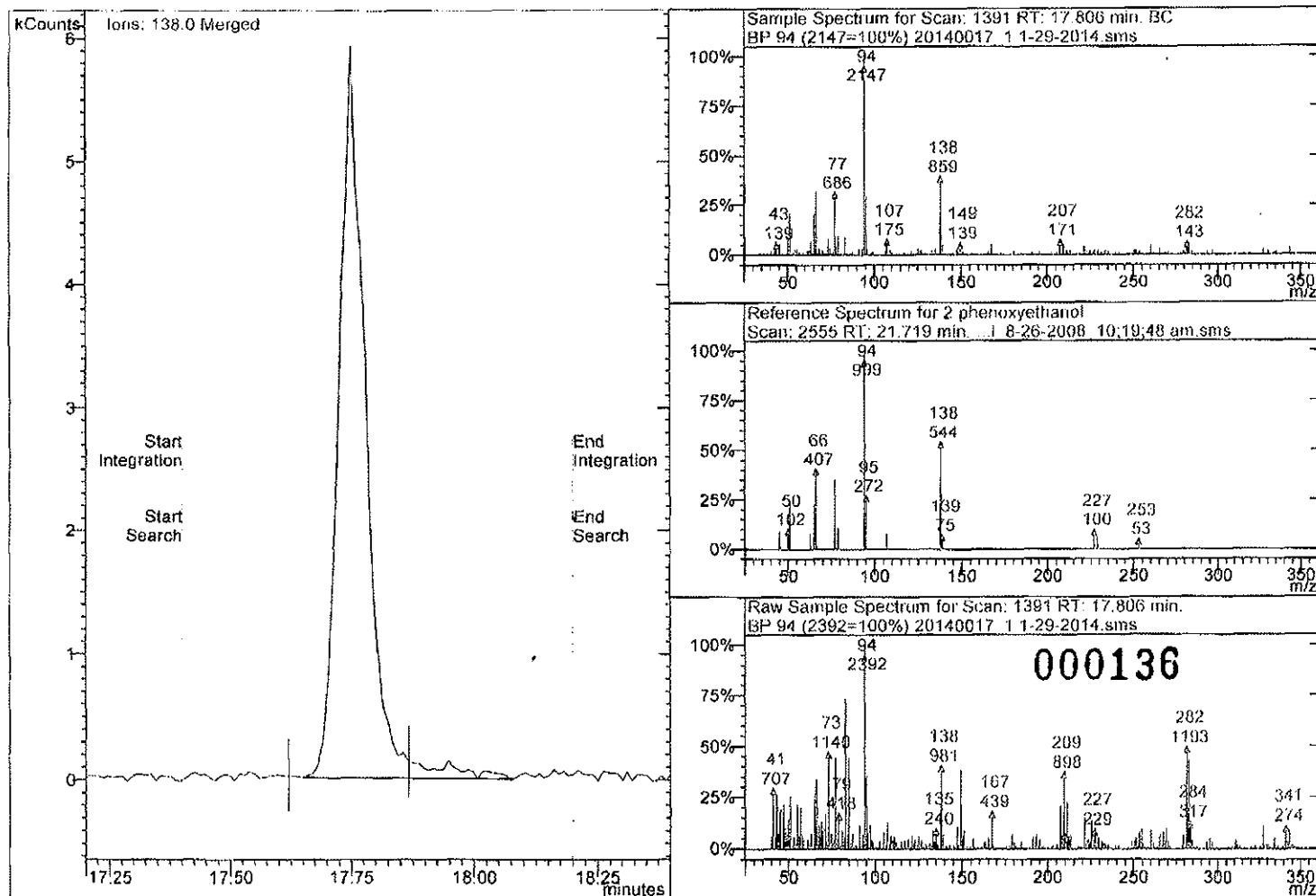
Identification

Parameter	Specification	Actual	Status
Search Type	Spectrum		
Retention Time	17.800 +/- 0.400	17.749 min.	Pass
Match Result	N-R >= 700	972	Pass

Integration and Quantitation

Parameter	Specification	Actual	Status
Quan Ions	138.0		
IS Peak Name	deuterated P.E.		
Calibration Equation	Linear, Force, None		
Area	>=10	23058	Pass
Height		5920	
Amount	>= 0.000 ppm	23058 Counts	Pass

Match Types: N-R : Normal-Reverse



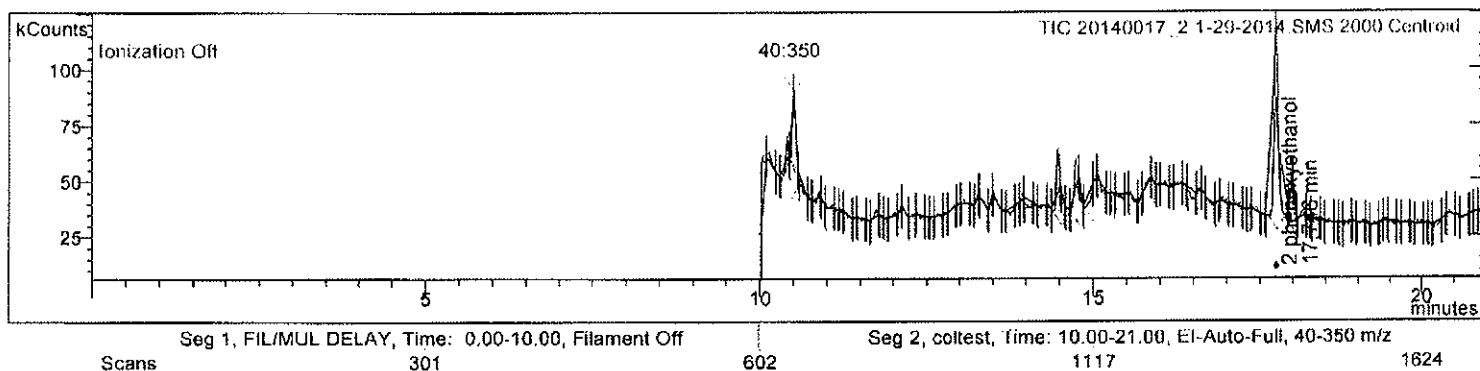
Print Date: 29 Jan 2014 14:54:23

dated 3-13

Sample Report for 20140017_2 1-29-2014.sms

Sample ID: 20140017_2
 Instrument ID: Varian GC/MS #1
 Acquisition Date: 1/29/2014 2:33 PM
 Calculation Date: 1/29/2014 2:54 PM
 Inj. Sample Notes: None
 Vial: N/A

Operator: Amy Housman
 Last Calibration: None
 Data File: ...0017_2 1-29-2014.sms
 Method: ...rm_split 20 to 1.mth



Target Compounds

#	RT	Peak Name	Res Type	Quan Ions	Area	Amount/RF
1	18.010	deuterated P.E.	Miss.	140.0	0	0.000 ppm
2	17.746	2 phenoxyethanol	Id.	138.0	57610	57610 Counts

000137

Sample ID: 20140017_2
Instrument ID: Varian GC/MS #1
Measurement Type: Area
Acquisition Date: 1/29/2014 2:33 PM
Calculation Date: 1/29/2014 2:54 PM
Sample Type: Analysis
Inj. Sample Notes: None

Operator: Amy Housman
Last Calibration: None
Calibration Type: Internal Standard
Data File: ...0017_2 1-29-2014.sms
Method: ...rm_split 20 to 1.mth

Compound Information

Peak Name:	deuterated P.E.	CAS Number:	None	Missing
Result Index:	1	Compound Number:	2	

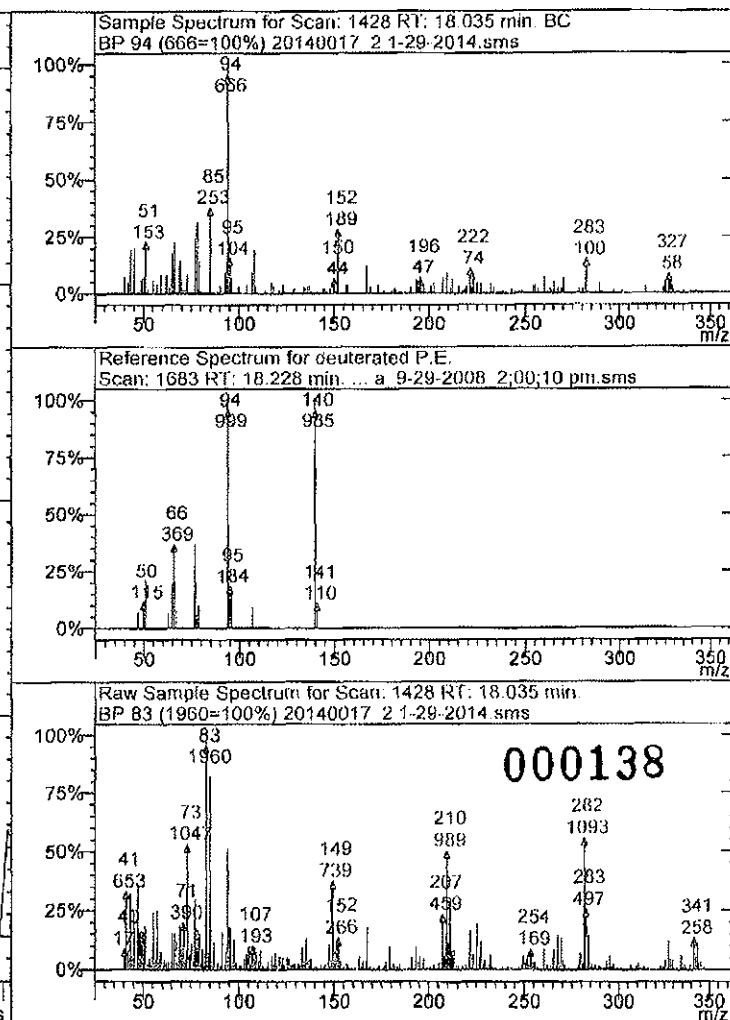
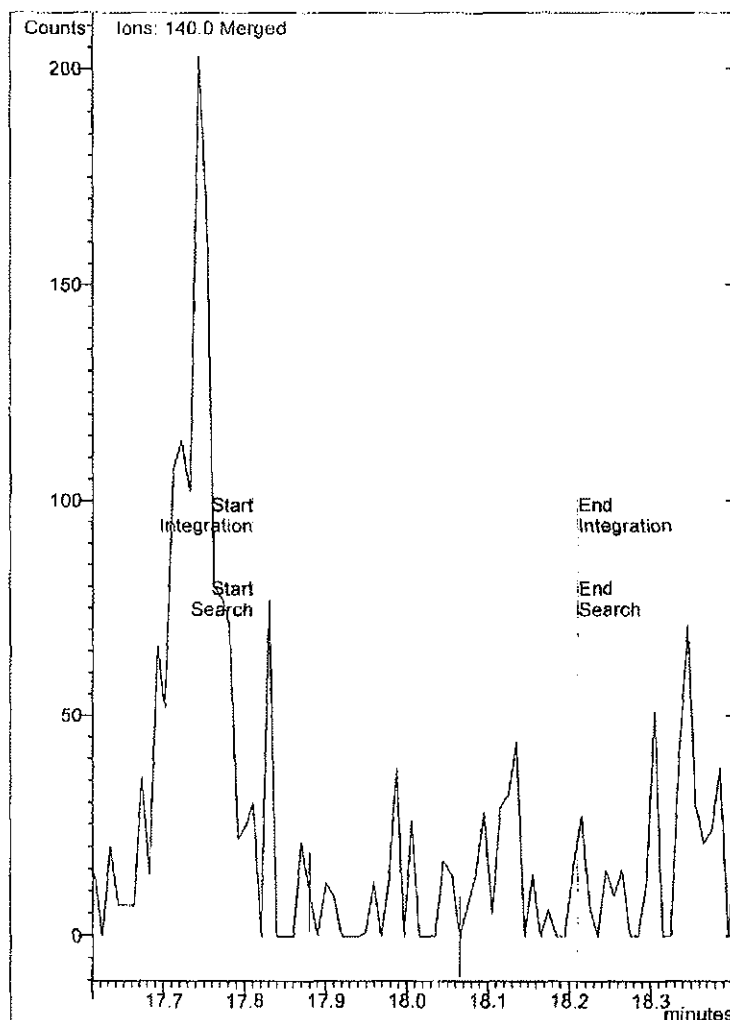
Identification

Parameter	Specification	Actual	Status
Search Type	Spectrum		
Retention Time	18.010 +/- 0.200	18.010 min.	Fail
Match Result	N-R >= 700	649	Fail

Integration and Quantitation

Parameter	Specification	Actual	Status
Quan Ions	140.0		
Calibration Equation	Linear, Force, 1/nX2		
Area	>=100	0	Fail
Height		0	
Amount	>= 0.000 ppm	0.000 ppm	

Match Types: N-R : Normal-Reverse



Sample ID: 20140017_2
Instrument ID: Varian GC/MS #1
Measurement Type: Area
Acquisition Date: 1/29/2014 2:33 PM
Calculation Date: 1/29/2014 2:54 PM
Sample Type: Analysis
Inj. Sample Notes: None

Operator: Amy Housman
Last Calibration: None
Calibration Type: Internal Standard
Data File: ...0017_2 1-29-2014.sms
Method: ...rm_split 20 to 1.mth

Compound Information

Peak Name:	2 phenoxyethanol	CAS Number:	122-99-6	Identified
Result Index:	2	Compound Number:	1	

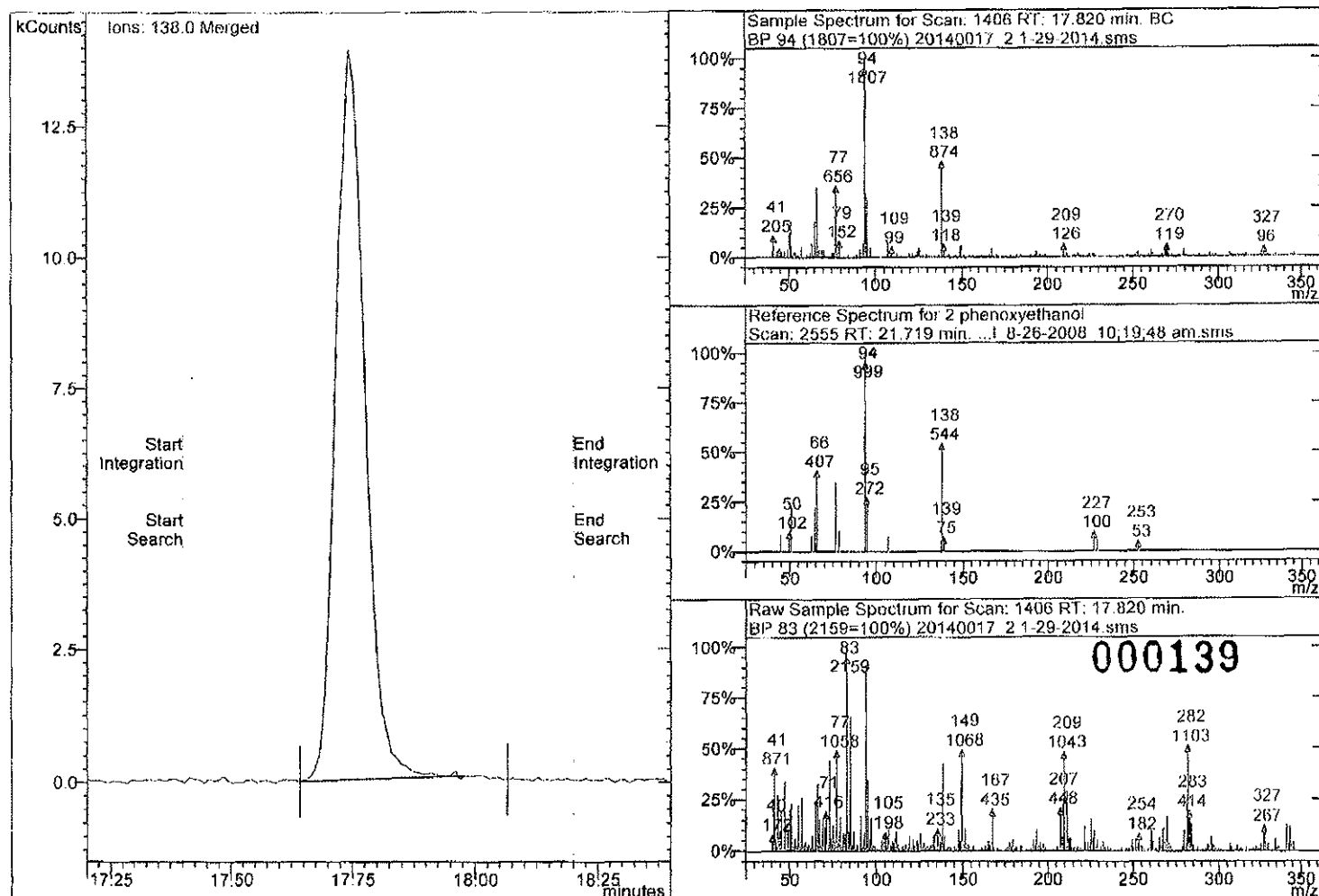
Identification

Parameter	Specification	Actual	Status
Search Type	Spectrum		
Retention Time	17.800 +/- 0.400	17.746 min.	Pass
Match Result	N-R >= 700	966	Pass

Integration and Quantitation

Parameter	Specification	Actual	Status
Quan Ions	138.0		
IS Peak Name	deuterated P.E.		
Calibration Equation	Linear, Force, None		
Area	>=10	57610	Pass
Height		13931	
Amount	>= 0.000 ppm	57610 Counts	Pass

Match Types: N-R : Normal-Reverse



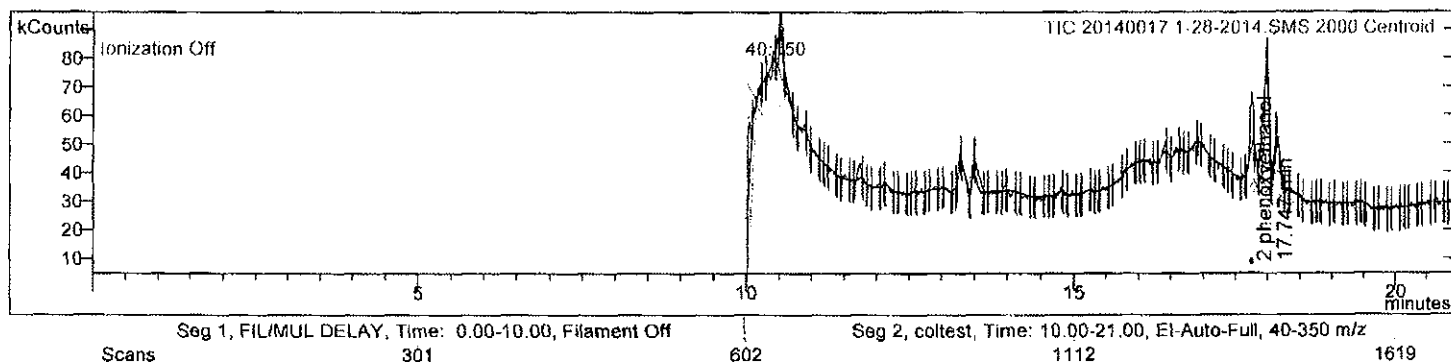
Print Date: 28 Jan 2014 15:50:01

Sample Report for 20140017 1-28-2014.sms

dated 4-8 4-6 657

Sample ID: 20140017
 Instrument ID: Varian GC/MS #1
 Acquisition Date: 1/28/2014 3:28 PM
 Calculation Date: 1/28/2014 3:49 PM
 Inj. Sample Notes: None
 Vial: N/A

Operator: Amy Housman
 Last Calibration: None
 Data File: ...140017 1-28-2014.sms
 Method: ...rm_split 20 to 1.mth



Target Compounds

#	RT	Peak Name	Res Type	Quan Ions	Area	Amount/RE
1	18.010	deuterated P.E.	Miss.	140.0	0	0.000 ppm
2	17.747	2 phenoxyethanol	id.	138.0	14350	14350 Counts

000140

Sample ID: 20140017
Instrument ID: Varian GC/MS #1
Measurement Type: Area
Acquisition Date: 1/28/2014 3:28 PM
Calculation Date: 1/28/2014 3:49 PM
Sample Type: Analysis
Inj. Sample Notes: None

Operator: Amy Housman
Last Calibration: None
Calibration Type: Internal Standard
Data File: ...140017 1-28-2014.sms
Method: ...rm_split 20 to 1.mth

Compound Information

Peak Name: deuterated P.E.
Result Index: 1 Compound Number: 2 CAS Number: None Missing

Identification

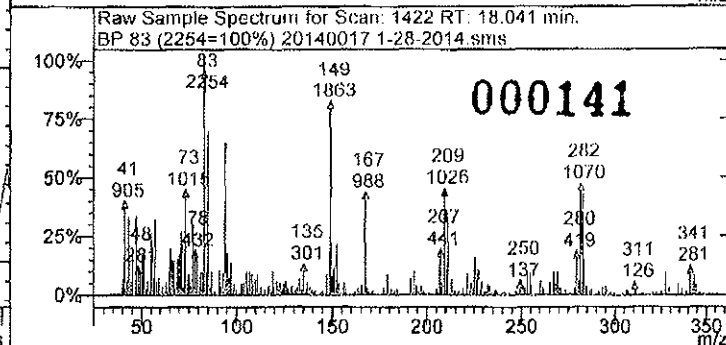
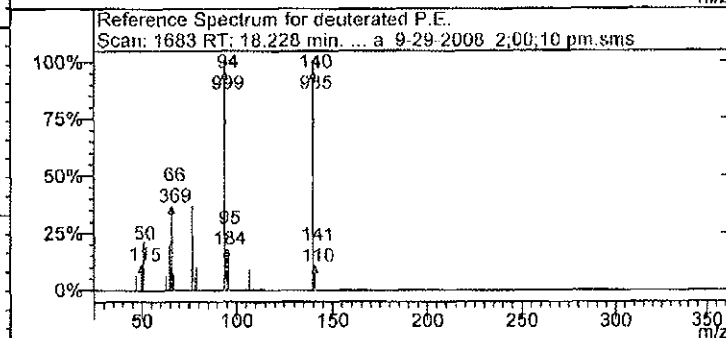
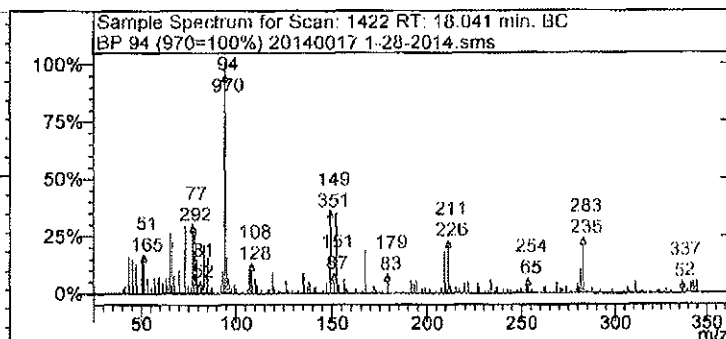
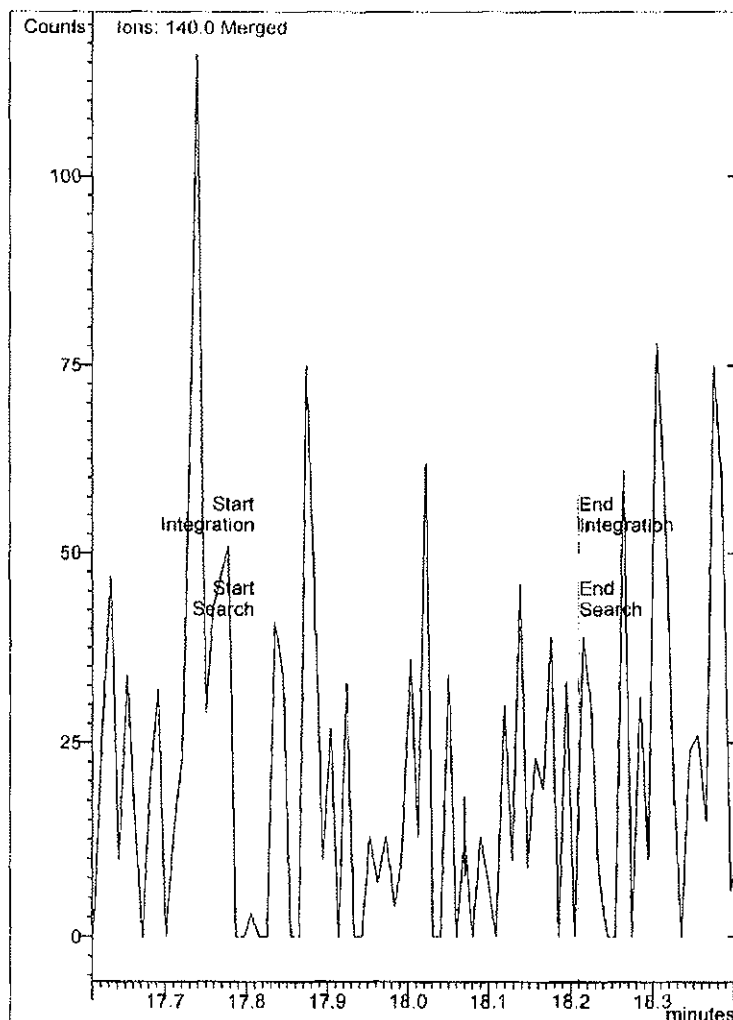
Parameter	Specification	Actual	Status
Search Type	Spectrum		
Retention Time	18.010 +/- 0.200	18.010 min.	Fail
Match Result	N-R >= 700	700	Pass

Integration and Quantitation

Parameter	Specification	Actual	Status
Quan Ions	140.0		
Calibration Equation	Linear, Force, 1/nX2		
Area	>=100	0	Fail
Height		0	
Amount	>= 0.000 ppm	0.000 ppm	

Match Types:

N-R : Normal-Reverse



Sample ID: 20140017
Instrument ID: Varian GC/MS #1
Measurement Type: Area
Acquisition Date: 1/28/2014 3:28 PM
Calculation Date: 1/28/2014 3:49 PM
Sample Type: Analysis
Inj. Sample Notes: None

Operator: Amy Housman
Last Calibration: None
Calibration Type: Internal Standard
Data File: ...140017 1-28-2014.sms
Method: ...rm_split 20 to 1.mth

Compound Information

Peak Name:	2 phenoxyethanol	CAS Number:	122-99-6	Identified
Result Index:	2	Compound Number:	1	

Identification

Parameter	Specification	Actual	Status
Search Type	Spectrum		
Retention Time	17.800 +/- 0.400	17.747 min.	Pass
Match Result	N-R >= 700	955	Pass

Integration and Quantitation

Parameter	Specification	Actual	Status
Quan Ions	138.0		
IS Peak Name	deuterated P.E.		
Calibration Equation	Linear, Force, None		
Area	>=10	14350	Pass
Height		3669	
Amount	>= 0.000 ppm	14350 Counts	Pass

Match Types: N-R : Normal-Reverse

